

# Propanamide, N,N-diundecyl-3-cyclopentyl-

**Inchi:** InChI=1S/C30H59NO/c1-3-5-7-9-11-13-15-17-21-27-31(30(32)26-25-29-23-19-20-24-29)  
**InchiKey:** PBPMNMAUVKULPK-UHFFFAOYSA-N  
**Formula:** C30H59NO  
**SMILES:** CCCCCCCCCCN(CCCCCCCCCC)C(=O)CCC1CCCC1  
**Mol. weight [g/mol]:** 449.80

## Physical Properties

Property code	Value	Unit	Source
gf	220.13	kJ/mol	Joback Method
hf	-647.10	kJ/mol	Joback Method
hfus	72.01	kJ/mol	Joback Method
hvap	91.42	kJ/mol	Joback Method
log10ws	-10.38		Crippen Method
logp	9.847		Crippen Method
mvol	434.250	ml/mol	McGowan Method
pc	672.20	kPa	Joback Method
rinpol	3505.00		NIST Webbook
rinpol	3505.00		NIST Webbook
tb	967.39	K	Joback Method
tc	1191.22	K	Joback Method
tf	521.16	K	Joback Method
vc	1.681	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1555.13	J/mol×K	967.39	Joback Method
cpg	1580.50	J/mol×K	1004.69	Joback Method
cpg	1604.26	J/mol×K	1042.00	Joback Method
cpg	1626.52	J/mol×K	1079.30	Joback Method
cpg	1647.42	J/mol×K	1116.61	Joback Method
cpg	1667.08	J/mol×K	1153.91	Joback Method
cpg	1685.63	J/mol×K	1191.22	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308289&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308289&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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